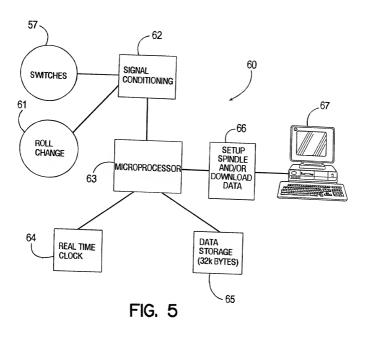
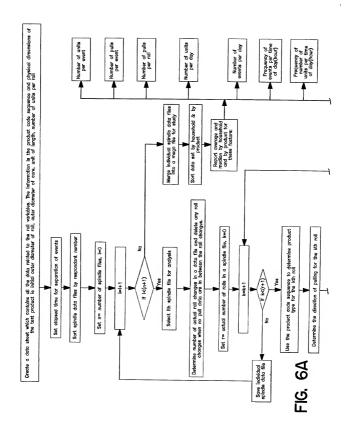


FIG. 4





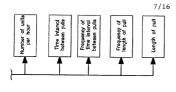
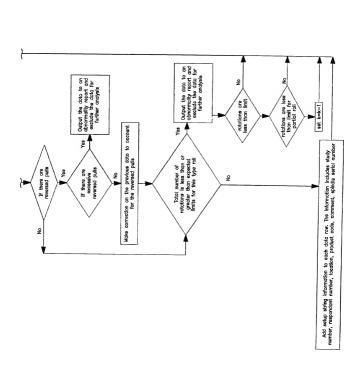
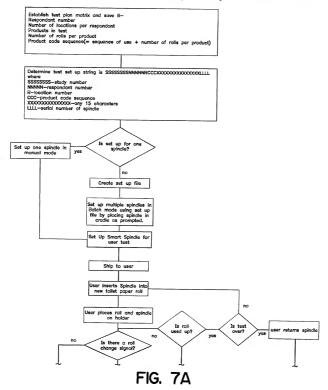


FIG. 6B



## Use of Smart Spindle for toilet paper utility in Consumer Home



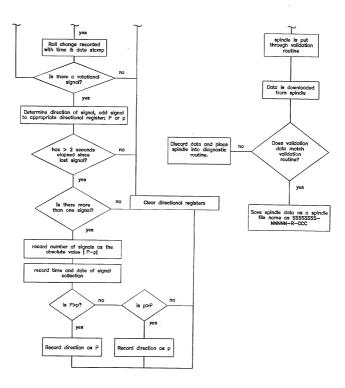
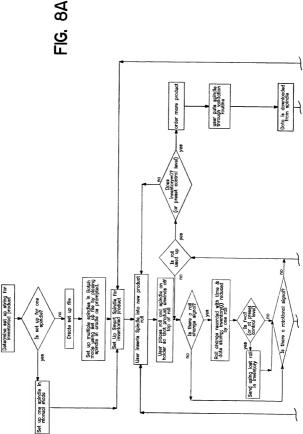
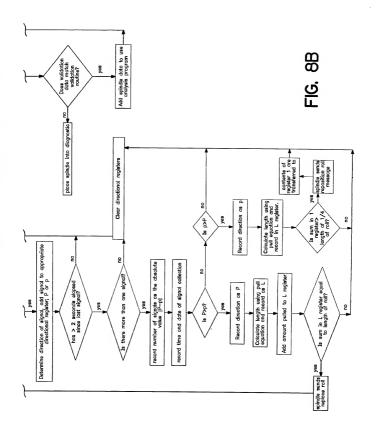


FIG. 7B

Use of Smart Spindle to control an inventory in Consumer Home, retailstore





□ Spindle Manager Eile Help				×
Setup Collect				
File Setup				
Setup File		Chang	е	
Spindle ID				
Start Skip	Continue		Abort	
☐ Aiways Setup				
- Manual Setup				
Spindle ID				
HOMETEST000021ASD0002		Setup		
	0	Not d	ownloaded	1:01:

FIG. 9

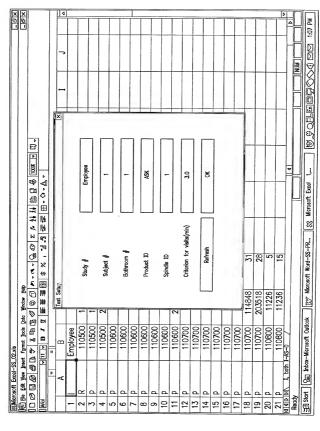


FIG. 10

Spind	le Manager				_ □ ×		
	Collect						
-Batch	Collect						
	Start	Directory  C:\Ms Td\MSG\Smart Spindle\Spindle  Change					
	Finish	Spindle ID					
□ 0v	er-write Files						
Single	Collect -		-				
	Collect	View					
	Save						
					,		
			0	Not downloaded	1:09:		

FIG. 11

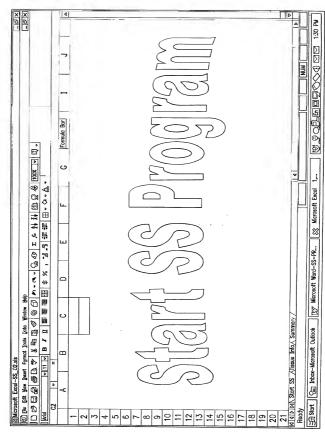


FIG. 12

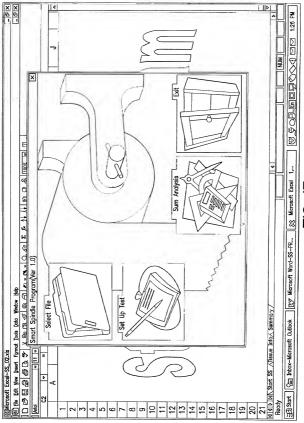


FIG. 13